

Customer No.: 31561
Application No.: 10/063,679
Docket No.: 8696-US-PA

AMENDMENTS

In The Claims

1. (currently amended) A structure for intensifying tracking signals from an optical disk, at least comprising:

a substrate;

a dye material layer over the substrate;

an optical correction layer only on one side of ~~[[over]]~~ the dye material layer opposite to the substrate; and

a reflection layer over the optical correction layer,

wherein the optical correction layer between the dye material layer and the reflection layer is a layer for improving tracking signals from the optical disk.

2. (original) The structure of claim 1, wherein the optical disk includes a recordable digital versatile disk (DVD-R).

3. (original) The structure of claim 1, wherein the optical correction layer is a transparent or a semi-transparent layer.

4. (original) The optical correction layer of claim 3, wherein material constituting the transparent or semi-transparent layer is selected from a group of inorganic compound consisting of metal, silicon and oxygen, nitrogen, sulfur and carbon.

5. (original) The structure of claim 1, wherein the optical correction layer is formed in a sputtering process.

6. (original) The structure of claim 1, wherein maximum absorption of light by the dye

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occurs at a wavelength between 500 ~ 650nm.

7. (original) The structure of claim 1, wherein optical correction layer has a thickness between 10Å to 1000Å.

8. (original) The structure of claim 1, wherein the optical correction layer has a thickness between 30Å to 300Å.

9. (original) The structure of claim 1, wherein material constituting the reflection layer is selected from a group consisting of gold, silver, aluminum and an alloy thereof.

10. (withdrawn) A method of manufacturing a recordable digital versatile disk (DVD-R), comprising the steps of:

forming a substrate by injection molding;
forming a dye material layer over the substrate by spin-coating;
forming an optical correction layer over the dye material layer by sputtering; and
forming a reflection layer over the optical correction layer by sputtering so that the optical disk has sufficient reflectivity,

wherein the optical correction layer is a transparent or semi-transparent made from inorganic material.

11. (withdrawn) The method of manufacturing DVD-R of claim 10, wherein maximum absorption of light by the dye within the dye material layer occurs at a wavelength between 500 ~ 650nm.

12. (withdrawn) The method of manufacturing DVD-R of claim 10, wherein the optical

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correction layer has a thickness between 10Å to 1000Å.

13. (withdrawn) The method of manufacturing DVD-R of claim 10, wherein the optical correction layer has a thickness between 30Å to 300Å.

14. (withdrawn) The method of manufacturing DVD-R of claim 10, wherein material constituting the inorganic optical correction layer is selected from a group of inorganic compound consisting of metal, silicon and oxygen, nitrogen, sulfur and carbon.

15. (withdrawn) The method of manufacturing DVD-R of claim 10, wherein material constituting the reflection layer is selected from a group consisting of gold, silver, aluminum and an alloy thereof.

16. (previously presented) The structure of claim 1, wherein the optical correction layer increases 1st order diffraction.

17. (new) The structure of claim 1, wherein the dye material layer is organic.